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// Determine an integer is prime or not
// Unfortunately, this program NOT work for input '4'!!
#include <iostream>
using namespace std;
int main()
{
    int i, p;
    char more;
    do
    {
        cout << "\n\t\tInput an integer: ";
        cin >> p;

        for (i = 2; i < p / 2; i++)
            if (p % i == 0)
            {
                cout << "\n\t\t" << p << " is NOT prime";
                break;
            }
        if (i >= p / 2)
            cout << "\n\t\t" << p << " is PRIME";
        cout << "\n\t\t\tDo more (Y/N) ? ";
        cin >> more;
    } while (more == 'y' || more == 'Y');
}

/* Calculate sum of digits in an integer
#include <iostream>
using namespace std;
int main()
{
    int i, x, xx, sum;
    char more;
    do
    {
        cout << "\n\t\tInput x: ";
        cin >> x;
        for (i = 0, sum = 0, xx = x; x > 0; i++, x = x / 10)
            sum = sum + x % 10;
        cout << "\n\t\tThe digit sum of " << xx << " is " << sum;
        cout << "\n\t\t\tDo more (Y/N) ? ";
        cin >> more;
    } while (more == 'y' || more == 'Y');
}*/

/* Demo digit count in an integer
#include <iostream>
using namespace std;
int main()
{
    int x, xx, i;
    char more = 'y';
    while (more == 'y' || more == 'Y') {

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cout << "\n\t\tInput x: ";
cin >> x;
for (i = 0, xx = x; x > 0; i++)
    x = x / 10;
cout << "\n\t\tThere are " << i << " digits in " << xx;
cout << "\n\t\t\tDo more (Y/N) ? ";
cin >> more;
}
}*/
```